(MATERIEL)

#### A- POSTFLIGHT INSPECTION

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This inspection is basically a combination of requirements for checking equipment that requires daily or frequent verification of satisfactory functioning, plus requirements that prescribe searching for defects that become apparent after the aircraft is flown. It is intended that evidence of chafing, leaks, and similar conditions be discovered and corrected during the Postflight Inspection to preclude progression of such a relatively minor problem to a state that would require major maintenance to remedy the deficiency. The Postflight Inspection is, therefore, an important function that should be performed with care.

The intervals at which the Postflight Inspection will be accomplished are contained in applicable aircraft inspection systems directives.

#### ELECTRICAL POWER OFF

#### PREPARATION:

- 1. Fire extinguisher provided.
- 2. Landing gear downlock pins installed.
- 3. Wheels chocked.
- 4. Auxiliary static ground installed.
- 5. Dive flaps closed shutoff valve "OFF."
- 6, DD Form 781 for discrepancies.
- 7. Switches "OFF."
- 8. Necessary fairing, panels and access doors removed or opened; closed or reinstalled upon completion of the inspection.
- 9. Dust excluder plugs and wing, empennage, canopy and pitot covers installed upon completion of the inspection.

#### AIRFRAME (SYSTEM NO. 3)

- 1. Aircraft for cleanliness.
- 2. Wings, fuselage, emponnage and control surfaces for damage; drain holes for obstruction.
  - 3. Statis ground wire for security and positive contact with ground.
  - 4. Fairings, panels, and doors for damage and insecurity.
  - 5. Battery area for evidence of leakage or overflow of electrolyte.
- 6. Dive brakes track for cleanliness; flaps, tracks, and linkage for damage and insecurity; actuators, lines hoses, and connections for insecurity and evidence of leakage; lines and hoses for chatting and damage.

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- 7. Windshield and canopy for cleanliness, distortion, nicks, crazing, cracks, and scratches.
  - 8. All required Postflight entries made in applicable forms.
  - 9. Shoulder harnesses and safety belts for cleanliness.

#### LANDING GEAR (SYSTEM NO. 4)

- 1. Landing gear and wheels for damage and free of mud, grass and ice.
- 2. Shock struts for evidence of leakage; polished surfaces of shock struts and hydraulic pistons cleaned with cloth moistened in hydraulic fluid.
  - 3. Microswitches for cleanliness, damage, and insecurity.
- 4. Doors and actuating mechanism for damage, insecurity and evidence of improper adjustment.
  - 5. Wheels for evidence of overheating in area adjacent to brakes.
- 6. Tires for uneven wear, cuts or blisters; free of grease or oil; slippage marks for misalignment.

7. Accessible brake lines, hoses, connections and components for leakage with parking brakes "SET".

- 8. Accessible components, lines, hoses and connections for insecurity and evidence of leakage; lines and hoses for chaging and damage.
- 9. Brake system reservoir for required fluid level; filler plug for security.

### HYDRAULIC PNEUMATIC (SYSTEM NO. 5)

1. Accessible components, lines, hoses, and connections for insecurity and evidence of leakage; lines and hoses for chafing and damage.

#### UTILITY (SYSTEM NO. 6)

- 1. Oxygen System and Components:
  - a. Recharge to 1850 psi.

b. Regulator for steady flow by turning the pressure control knob about 90 degrees clockwise.

c. Regulator system for leakage by ensuring that there is no audible escape of oxygen with diluter in "100% OXYGEN".

- d. Regulator diaphragn and mask-to-regulator tubing for leakage when a slight pressure is applied at the open end of the mask-to-regulator tube by blowing gently with diluter lever set at "100% OXYGEN"; set regulator diluter at "NORMAL OXYGEN" upon completion of tests.
- e. Hose from regulators for tears, holes, kinks and insecurity.

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- f. Knurled coller and hose on regulator outlet elbows properly tightened (point to suit user's convenience).
- g. Flow indicators for operation. (With regulator set at "100% OXYGEN", blinker should move freely with each normal breath from mask-to-regulator tubing).

#### POWER PLANT (SYSTEM NO. 7)

- 1. Exhaust cone for soot swirls and heat streaks indicating faulty fuel nozzles. (If found, inspect inner liners, nozzles and domes).
  - 2. Turbine wheel for broken buckets.
  - 3. Buckets for nicks and dents behand specified tolerance.
  - 4. Nozzle diaphragn blades for damage.
- 5. Engine for evidence of leakage; loose or missing nuts, bolts, studs, or clamps; proper safetying where required.
  - 6. Diaphragm and air seal assemblies for cracks and insecurity.

#### FUEL (SYSTEM NO. 8)

- 1. Exterior of aircraft for evidence of leakage.
- 2. Tanks serviced; tank filler necks and cap seals for damage or excessive wear; caps for proper seating.

#### OIL (SYSTEM NO. 9)

1. Engine reservoir for required servicing; filler cap for security.

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2. Exterior of fuselage for evidence of leakage.

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3. System components, lines, and hoses for damage; lines and hoses for chafing.

#### AIR INDUCTION AND EXHAUST (SYSTEM NO. 11)

- 1. Air intake ducts for damage and foreign material.
- 2. Tailpipe for cracks and distortion beyond permissible limits; tailpipe clamp and blankets for damage and insecurity.

#### ELECTRICAL (SYSTEM NO. 14)

1. Spare lamps and fuses available in holders.

#### INSTRUMENTS (SYSTEM NO. 15)

- 1. Pitot head and static plates for damage and insecurity.
- 2. Instruments, panels and brackets for damage and insecurity.

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- 3. Instrument cover glasses for cleanliness, cracks, and looseness; range, slippage and limit markings intact.
  - 4. Standby compasses for discoloration of fluid and evidence of bubbles.
  - 5. Thermocouple leads for damage and insecurity.

#### R & R (SYSTEM NO. 16)

- 1. Visually inspect the following items;
- a. Antenna lead-in for damaged insulators, proper spacing from surrounding objects, and insocurity of connections.
  - b. Plugs for proper insertion in jacks and receptacles.
  - c. Junction boxes and covers for damage.
- d. Headset and microphone cordage and plugs for damage and proper stowage.

REMARKS:

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SIGNATURE		

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#### B-PREFLIGHT INSPECTION

ARTICLE NO. 353	DATE # 3 DET 3
NOSE SECTION:  1. Plastic nose & windows free of cracks & secure.	MFCH, INSP.
1. Figstic hose & willows five of classes & secure.	TAR TAR
2. ARN/6 boot for condition & closed, ARN/6 and compass s	ecure. V. A.M. AND
3. Brake fluid for proper level & cap secure.	11/2
4. Cabin pressure test fitting secure	- 4.7 M
5. Pitot clean & secure, check AIRSPEED.	
6. Nose section clean & OK to close panel.	M. M.
7. Access panel installed.	
8. All items cleared. CREW CHIEF:	
COCKPIT EXTERNAL:	
1. Static holes all open.	27.6
2. Canopy external handle secure.	Jan 18
3. Lower antenna secure.	Ch. R.
4. Windshield & canapy glass cleanliness & condition.	A. J. W.
5. All items cleared. CREW CHIEF:	1.200
1. Canopy antenna connection secure.	
2. Canopy emergency release handle locked & safetied (020	copper wire)
3. Canopy for proper latching with aft hatch installed.	Co. L. L.
4. Canopy seal & connection for condition.	6,24
5. Brakes for solid feel.	MA A
6. Rudder pedals for freedom & operation of adjustment.	A CAR
7. Elevator for operation & freedom.	1/20
8. Aileron for operation & freedom.	
9. Elevator tab for operation & direction. Set to neutro	al. 7.1/12.
10. Aileron tab for operation & direction. Set to neutral	1. 3/4/1/1/ L
11. Throttle for operation & friction lock.	
US, U.H.F.	dra
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COCKPUT INTERNAL: (Continued)	MECH.	INSP
13. Alchohol & rag in map case.	( Fint	My.
	after the state of	
14. Instruments for condition & cleanliness.  15. Circuit breakers set or into white line.	11.12	
de la companya de la	1000	
17. Oxygen system checked out. System pressure 1800 to 2000#		
cap installed, check out face heat.	13 13	
78. Warning lights for operation.	: - the mat on	<u> </u>
19. Emergency battery for operation, check voltage with preci	ision meter.	8 <u>1</u>
20. Seat for condition & operation.		<del>/</del>
21. Interior lights for operation & security.		
22, Cockpit floor cleaned.		
23. All items cleared. CREW CHIEF:		====
EQUIPMENT BAY:		
1. Peacan drained, flushed & valve closed.		
2. Cockpit regulators for cleanliness & condition.	). (Ell p. ). (P. ).	
3. Control cables for freedom, operation & turnbarrels safe	ties,	
4. Equipment for security in hatch & bay.	\$.	
5. Lower hatch & seal for operation & condition of latching	mechanism.	
6, OK to install lower hatch.	·	
7. Lower hatch installed, latched and safeticd.		
8. Check HF radio equipment for security.		
9. Upper hatch latching mechanism for operations.	4	
10. Pressure regulator safetied in flight position.		
11. OK to install upper hatch.		
12. Upper hatch installed, latched & safetied.		
13. All items cleared. CREW CHIEF:	The state of the s	
UPPER CROTCH BAY:		
1. Heat exchanger duct connections for security.	And it	
2. Check for plumbing or anything riding structure.		
OK to close access door.		
A. Access door closed & secure.		7/ ^
5. All items cleared. CREW CHIEF:		<u> </u>
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ENCYCUE AIR DUCTS		MECH. I	GE - AN
1. R/H & L/H main ducts for cracks & cleanliness,		J.H.J.	_ diff
2. R/H oil cooler duct for cracks & cleanliness.	- bloden for	dont a	.\
Check inlet guide vanes, compressor rotor & state 3. nicks or other evidence that the engine has inges	sted foreign i	naterial.	\ <u>\\</u>
4. Run up screens removed.		- V. 11.54	<u></u>
5. All items cleared. CREW CHIEF:	25X1/		
WING:			
1. R/H wing for condition & cover plates secured.	63.	<i>P.</i>	
2. R/H aileron & tab for security & condition.	1.5.	Jed.	
3. R/H flap for security & condition.	123	<u> </u>	
4. R/H fuel caps secured.	Jakes Takes	<del>P</del>	
5. R/H wing fillets for conditions & security.		<u> </u>	——
6. R/H pogo installed & latched.	- 1/1/4/5	4. 4.	
7. L/H wing for condition & cover plates secured.			
8. L/H aileron & tab for security & condition.		ž	
9. L/H flap for security & condition.		-	<del>.  </del> .
10. L/H fuel caps secured.			
11, L/H wing fillets for condition & security.		,	
12. L/H pogo installed & latched.	TT-Yey.	z.5	
13, L/H & R/H outboard fuel drain valves checked for	water.		
14. All items cleared. CREW CHIEF:	12.45	1.	
FUSELAGE	,	/	
1. External skin for condition.	12	4.	
2, Fiector for condition,			·
3. Dive flap (speed brakes) for condition & hydro le	eaks.		
4, Engine mounts & tail pipe for security.			
5, All cover plates secured on top of fusclage,		· Control of the cont	
Tail pipe & turbine for cracks or evidence of for pussing through turbine.	reign materia		
7. All items cleared. CREW CHIEF:			
BATTENNAGE:			
Stabilizer for condition.		A.	<del></del>
2. Elevator & tab for condition & security.		7	DVY.

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EMPFIONA	Approved For Release 20 CONTINE TO THE PERSONS 1R00	0100090024-5
2 [F]	evator tab for serveaction.	<u>4</u> 7725X1
4. Ve	rtical stabilizer for condition.	
5. Ve	nt line open,	
6. Ru	dder for security & condition.	
7. F	llets for security & condition.	
8 A3	l items cleared. CREW CHIEF:	Life submitted to a restrict to the second t
TAIL G		
l. Do	oors for security.	<del></del>
2. T	res for condition.	<u> </u>
S	ceering cables & brackets for condition & security.  The condition & cleanliness, proper pressure is 3 attended or 3.75 inches compressed.	
5. M	cro switch for security & condition,	
6. A	ll items cleared, CREW CHIEF:	
MAIN G	CAR & WELL	
1, D	oor for security & condition.	
2. C	ontrol cables for condition, turnbarrels safetied,	
	plock release cable & spring secure.	
S	etract mechanism & cyl. for condition, trut for condition, proper pressure or height & cleanl ressure 180 psi extended or 4.5 inches compressed.	iness.
6, E	rakes for clearance & freedom of leaks.	25X1
	ires for condition & pressure, 240 lbs.	
_8A	11 items cleared. CREW CHIEF:	
ENGIME	COMPARTMENT:	25X1
]., I	hrottle for security & safety,	
2, N	ain & aux, fuel tank transfer valves open & safetied,	
	anual fuel shut off open & safetied,	
40 N	ain fuel strainer drained or checked for water.	
<u>5. (</u>	heck accumulator pressure, 800 psi,	
	ydro Oil tank full.	
	lectrical plugs secure & safetied.	
	uel & oil lines secure & free of leaks.	VIX
<u>90 I</u>	ive flap shut off valve safetied open.	W. W. Carly

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ENGI	NE COMPARTMENT:		25X1ACH.	And the first section of
10.	Engine side plates installed.			d
11.	OK to install aft lower engine cover	r & drain lines.	4.4.	
		CREW CHIEF:	<i>M</i> ; 7.4.	
FINA	AL SIGN OFF:	andron a special description of the special of the	harrier en	
<u>l.</u>	Install lower engine cover fwd, sect	tion,		``
2.	Remove pitot airspeed cover.	I		/
	Remove main & tail gear down lock pi	ins.		
			•	
	Install séissors pin in tail gear.			para May May and Market State
5 .	Fuel load / 335 Fuel added	0il added	0il level	
1A	0xygen	]	ويتلامون أمثلاث	● sin Le <sup>1</sup>
	Ship released for flight	Date 1005	Time 9	
AIRO	CRAFT GENERAL:			
1.	Elect and radio pre flight.			
2.	Install and check special equipment,	9		
3.	Check Destr. circuit.			
4.	Install and connect destr.			
. 5.	Install upper hatch.			-
	Pilot enter cockpit.			
	Pilot check cockpit.			-
8.	Start MA-2 on signal from pilot.			
9.	Start engine.			
	Disconnect MA-2.			
	Close canopy.			
	Pull gear pins.			
	Pull chocks.			7
	Chrew Chief signal all OK on outside	for take-off.		
	Pick up Pogo's after take-off,			
	All items cleared.	CREW CHIEF:		do

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l. Install Pogo's.					d		
2. Tow aircraft to hangar.				7.5			
3. Check with pilot to assure all discrepancies have been entered on				# 1	12.3.3.		
4. Correct discrepand	ies.	······			F) 4	2 3 4	
5. All items cleared.		C	REW CHIE	F:	x : /, -	d	
and the same of th	المراجعة ا	ENGINE F		many and the state of the state			
DATE TO THE T	EST A	Alentot	ARTICLE		OPERA:	TION	
START /2/35 S	TART		START		SPART		
STOP /	TOP		STOP		STOP		
	•		*			1	
'TMF;						1. d.	
RPM Idle 58-60 Max. 91-95	=						
TEMP. Idle 200-300 Max. 500-580				÷			
TUEL PRESS. Idle 15-20 Max. 8-12	1 60						
START TOTALIZER	366	0					
END TOTALIZER	#연금  , 3				·		
LAPSED TIME	× .	:		:			
OADMETER "05-15						:	
MDRO. PRESS. 2800-3100							
TL PRESS. 40-50	40				: .		
Max, 0-80	€ Distriction						
NGINE COMP. TEMP.				1			
FT FUEL. TEMP.	E						
RLSS. RATION 80% .2-1.6 Max. 2,2-2,5	112		*			DE	

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